

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	6	raz-uri\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
L2	6	volk-Yehuda\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
L3	4	melamed-shmuel\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
L4	9878	709/203,201-202.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L5	1473	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L6	26780	709/204,217-227.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L7	12676	709/230,232-247.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L8	945	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L9	3219	719/311-318.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:36
L10	1733	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L11	3098	718/101-104.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34

## EAST Search History

L12	47710	L4 or L5 or L6 or L7 or L8 or L9 or L10 or L11	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L13	403	L12 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L14	192	L12 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L15	515	L13 or L14	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L16	116	L15 and stream\$5 same (sequenc\$5 or order\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34
L17	1839	709/231.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
L18	15	L17 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
L19	20	L17 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
L20	1247	719/328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
L21	3	L20 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37

## EAST Search History

L22	8	L20 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37
L23	0	719/238.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37
L24	1247	719/328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37
L25	3	L24 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37
L26	8	L24 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:37
S1	4	raz-uri\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
S2	2	volk-Yehuda\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
S3	2	melamed-shmuel\$.in.	USPAT; EPO; JPO	OR	ON	2006/11/20 13:34
S4	1	"6574618".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:44
S5	1	"6292827".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 15:44
S6	2274	network and applet and java	USPAT; EPO; JPO	OR	ON	2003/09/15 16:30
S7	868	(network and applet and java) and stream\$3	USPAT; EPO; JPO	OR	ON	2003/09/15 16:05
S8	776	((network and applet and java) and stream\$3) and request	USPAT; EPO; JPO	OR	ON	2003/09/15 16:06
S9	324	((((network and applet and java) and stream\$3) and request) and compress\$3	USPAT; EPO; JPO	OR	ON	2003/09/15 16:06
S10	134	(((((network and applet and java) and stream\$3) and request) and compress\$3) and notificat\$4	USPAT; EPO; JPO	OR	ON	2003/09/15 16:07

## EAST Search History

S11	133	(((((network and applet and java) and stream\$3) and request) and compress\$3) and notificat\$4) and server	USPAT; EPO; JPO	OR	ON	2003/09/15 16:07
S12	130	(((((network and applet and java) and stream\$3) and request) and compress\$3) and notificat\$4) and server) and client	USPAT; EPO; JPO	OR	ON	2003/09/15 16:08
S13	6	(((((network and applet and java) and stream\$3) and request) and compress\$3) and notificat\$4) and server) and client) and (stream\$3 near5 web\$8)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:19
S14	43	(network and applet and java) and (identify\$3 same web same related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:31
S15	0	((network and applet and java) and (identify\$3 same web same related)) and (identify\$3 adj related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:32
S16	2	((network and applet and java) and (identify\$3 same web same related)) and (identify\$3 adj3 related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:33
S17	49	(network and applet and java) and (identify\$3 near5 related)	USPAT; EPO; JPO	OR	ON	2003/09/15 16:34
S18	1	"6408294".pn.	USPAT; EPO; JPO	OR	ON	2003/09/15 18:27
S19	14	server and client and JAR and ZIP and size	USPAT	OR	ON	2003/09/17 14:37
S20	12	(server and client and JAR and ZIP and size) and stream\$3	USPAT	OR	ON	2003/09/17 14:38
S21	9	((server and client and JAR and ZIP and size) and stream\$3) and compress\$3	USPAT	OR	ON	2003/09/17 14:38
S22	9	((server and client and JAR and ZIP and size) and stream\$3) and compress\$3) and applet	USPAT	OR	ON	2003/09/17 14:38
S23	9	((server and client and JAR and ZIP and size) and stream\$3) and compress\$3) and applet) and Java	USPAT	OR	ON	2003/09/17 14:38
S24	0	((server and client and JAR and ZIP and size) and stream\$3) and compress\$3) and applet) and Java) and (Java adj Micro adj Edition)	USPAT	OR	ON	2003/09/17 14:39

## EAST Search History

S25	4	(((((server and client and JAR and ZIP and size) and stream\$3) and compress\$3) and applet) and Java) and (digital adj signature)	USPAT	OR	ON	2003/09/17 14:44
S26	1	"6311221".pn.	USPAT; EPO; JPO	OR	ON	2003/09/24 21:49
S27	3612	network and server and client and java	USPAT	OR	ON	2003/09/24 22:22
S28	1454	(network and server and client and java) and stream\$5	USPAT	OR	ON	2003/09/24 22:22
S29	94	((network and server and client and java) and stream\$5) and purg\$5	USPAT	OR	ON	2003/09/24 22:22
S30	80	((network and server and client and java) and stream\$5) and purg\$5) and path	USPAT	OR	ON	2003/09/24 22:23
S31	66	((network and server and client and java) and stream\$5) and purg\$5) and path) and algorithm	USPAT	OR	ON	2003/09/24 22:23
S32	65	((network and server and client and java) and stream\$5) and purg\$5) and path) and algorithm) and web\$8	USPAT	OR	ON	2003/09/24 22:26
S33	2	("6,615,258") or ("6,408,294")).PN.	USPAT; USOCR	OR	OFF	2004/02/02 22:28
S34	1	("6,289,382").PN.	USPAT; USOCR	OR	OFF	2003/09/25 01:01
S35	1	("6311221").PN.	USPAT; USOCR	OR	OFF	2003/11/02 12:37
S36	24161	(JAR or (Java adj archive adj file))	USPAT	OR	ON	2003/11/02 14:11
S37	4161	((JAR or (Java adj archive adj file))) and stream\$	USPAT	OR	ON	2003/11/02 13:24
S38	471	((JAR or (Java adj archive adj file))) and stream\$) and predict\$	USPAT	OR	ON	2003/11/02 13:25
S39	39	((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine	USPAT	OR	ON	2003/11/02 13:28
S40	10	((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java	USPAT	OR	ON	2003/11/02 13:28
S41	7	((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server	USPAT	OR	ON	2003/11/02 13:29

## EAST Search History

S42	7	(((((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server) and model\$	USPAT	OR	ON	2003/11/02 13:29
S43	4	(((((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server) and model\$) and library	USPAT	OR	ON	2003/11/02 13:26
S44	4	(((((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server) and model\$) and compress\$	USPAT	OR	ON	2003/11/02 13:29
S45	3	(((((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server) and model\$) and compress\$) and (((((JAR or (Java adj archive adj file))) and stream\$) and predict\$) and engine) and java) and client and server) and model\$) and library)	USPAT	OR	ON	2003/11/02 13:27
S46	252	((JAR or (Java adj archive adj file))) and stream\$) and engine	USPAT	OR	ON	2003/11/02 13:28
S47	22	((JAR or (Java adj archive adj file))) and stream\$) and engine) and java	USPAT	OR	ON	2003/11/02 13:28
S48	16	(((((JAR or (Java adj archive adj file))) and stream\$) and engine) and java) and client and server) and model\$	USPAT	OR	ON	2003/11/02 13:29
S49	8	(((((JAR or (Java adj archive adj file))) and stream\$) and engine) and java) and client and server) and model\$) and compress\$	USPAT	OR	ON	2003/11/02 13:30
S50	18	(((((JAR or (Java adj archive adj file))) and stream\$) and engine) and java) and client and server	USPAT	OR	ON	2003/11/02 13:30
S51	1	("6,408,294").PN.	USPAT; USOCR	OR	OFF	2003/11/02 13:58
S52	1	("4253561").PN.	USPAT; USOCR	OR	OFF	2003/11/02 14:07
S53	2003	engine and java	USPAT	OR	ON	2003/11/02 14:11
S54	85	(engine and java) and (engine same predict\$)	USPAT	OR	ON	2003/11/02 14:12

## EAST Search History

S55	62	((engine and java) and (engine same predict\$)) and stream\$	USPAT	OR	ON	2003/11/02 14:12
S56	25	((engine and java) and (engine same predict\$)) and stream\$) and (predict\$ same model\$)	USPAT	OR	ON	2003/11/02 14:12
S57	1	(US-6523027-\$).did.	USPAT	OR	OFF	2003/11/02 14:20
S58	1	"6574618"	USPAT	OR	OFF	2003/11/02 14:21
S59	1	"6574618".pn.	USPAT	OR	OFF	2003/11/02 15:44
S60	0	"6574618".URPN.	USPAT	OR	OFF	2003/11/02 14:22
S61	2	"6311221".URPN.	USPAT	OR	OFF	2003/11/02 14:24
S62	223	streamlet	USPAT	OR	ON	2003/11/02 15:44
S63	1	(streamlet and stream\$) and (java or jar)	USPAT	OR	ON	2003/11/02 15:45
S64	1	streamlet and (streamlet same predict)	USPAT	OR	ON	2003/11/02 16:50
S65	14	streamlet and (streamlet same predict\$)	USPAT	OR	ON	2003/11/02 15:46
S66	4870	stream\$ same predict\$	USPAT	OR	ON	2003/11/02 15:48
S67	82	(stream\$ same predict\$) and (java or Jar)	USPAT	OR	ON	2003/11/02 15:49
S68	1	((stream\$ same predict\$) and (java or Jar)) and (java and Jar)	USPAT	OR	ON	2003/11/02 15:48
S69	64	(stream\$ same predict\$) and (java)	USPAT	OR	ON	2003/11/02 15:49
S70	34	((stream\$ same predict\$) and (java)) and engine	USPAT	OR	ON	2003/11/02 15:52
S71	392	advertise\$5 same stream\$	USPAT	OR	ON	2003/11/02 15:52
S72	308	(advertise\$5 same stream\$) and (internet or network)	USPAT	OR	ON	2003/11/02 15:53
S73	1	((advertise\$5 same stream\$) and (internet or network)) and (JAR same stream\$)	USPAT	OR	ON	2003/11/02 15:54
S74	0	"6625581".URPN.	USPAT	OR	OFF	2003/11/02 16:32
S75	1	"6625581".pn. and (stream\$ same file)	USPAT	OR	ON	2003/11/02 16:32
S76	1	streamlet and (streamlet same map\$)	USPAT	OR	ON	2003/11/02 16:52
S77	223	streamlet and stream\$	USPAT	OR	ON	2003/11/02 16:50
S78	5363	stream\$ same map\$	USPAT	OR	ON	2003/11/02 16:56
S79	248	(stream\$ same map\$) and java	USPAT	OR	ON	2003/11/02 16:52
S80	126	((stream\$ same map\$) and java) and library	USPAT	OR	ON	2003/11/02 16:52

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S81	91	((stream\$ same map\$) and java) and library) and engine	USPAT	OR	ON	2003/11/02 16:53
S82	78	((stream\$ same map\$) and java) and library) and engine) and track\$	USPAT	OR	ON	2003/11/02 16:56
S83	14	"6292827".URPN.	USPAT	OR	OFF	2003/11/02 17:03
S84	1	("6427149").PN.	USPAT; USOCR	OR	OFF	2004/02/02 19:22
S85	2	"6535894"	USPAT	OR	OFF	2004/02/02 19:30
S86	1	("6148340").PN.	USPAT; USOCR	OR	OFF	2004/02/02 19:56
S87	1	("6230184").PN.	USPAT; USOCR	OR	OFF	2004/02/02 20:00
S88	0	java adj micro adj edition	USPAT	OR	OFF	2004/02/02 20:00
S89	1	J2ME	USPAT	OR	OFF	2004/02/02 20:00
S90	1	("6535894").PN.	USPAT; USOCR	OR	OFF	2004/02/02 23:10
S91	1	("6,427,149").PN.	USPAT; USOCR	OR	OFF	2004/02/02 23:10
S92	1	("6,230,184").PN.	USPAT; USOCR	OR	OFF	2004/02/03 15:33
S93	1	weight same (path near5 algorithm) same stream\$3	USPAT	OR	ON	2004/05/07 12:49
S94	8	weight same (path near5 algorithm) same stream\$3	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58
S95	11	weight same (path same algorithm) same stream\$3	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58
S96	3	(weight same (path same algorithm) same stream\$3) not (weight same (path near5 algorithm) same stream\$3)	US-PGPUB; USPAT	OR	ON	2004/02/03 15:58
S97	85	(path near5 algorithm) same stream\$3	US-PGPUB; USPAT	OR	ON	2004/02/03 16:32
S98	53	(path near5 algorithm) same stream\$3	USPAT	OR	ON	2004/02/03 15:58
S99	52	((path near5 algorithm) same stream\$3) not (weight same (path same algorithm) same stream\$3) not (weight same (path near5 algorithm) same stream\$3)	USPAT	OR	ON	2004/02/03 16:02



## EAST Search History

S10 0	19	((path near5 algorithm) same stream\$3) not (weight same (path same algorithm) same stream\$3) not (weight same (path near5 algorithm) same stream\$3)) and weight\$3	USPAT	OR	ON	2004/02/03 16:02
S10 1	8	(frequent\$2 near3 used near2 file) same stream\$3	US-PGPUB; USPAT	OR	ON	2004/02/03 19:06
S10 2	12	(common\$2 near3 used near2 file) same stream\$3	US-PGPUB; USPAT	OR	ON	2004/02/03 16:36
S10 3	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/02/03 22:51
S10 4	24	"6085193".URPN.	USPAT	OR	OFF	2004/02/03 22:34
S10 5	1	("5878223").PN.	USPAT; USOCR	OR	OFF	2004/02/03 23:01
S10 6	1	("6463508").PN.	USPAT; USOCR	OR	OFF	2004/02/04 00:49
S10 7	2	((("6065046") or ("5802292")).PN.	USPAT; USOCR	OR	OFF	2004/02/04 00:53
S10 8	91	cache near3 (purg\$3 or replac\$3) same server	USPAT	OR	ON	2004/02/04 00:55
S10 9	3	cache near3 (purg\$3 or replac\$3) near3 manager same server	USPAT	OR	ON	2004/02/04 00:57
S11 0	8	cache near3 (purg\$3 or replac\$3) same proxy same server	USPAT	OR	ON	2004/02/04 00:57
S11 1	1	("6463508").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:07
S11 2	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:11
S11 3	1	("6,205,481").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:11
S11 4	1	("6,272,598").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:12
S11 5	1	("6,393,526").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:12
S11 6	1	("6,622,168").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:16
S11 7	1	("6,408,294").PN.	USPAT; USOCR	OR	OFF	2004/05/07 11:02
S11 8	1	("6,427,149").PN.	USPAT; USOCR	OR	OFF	2004/05/07 10:21
S11 9	1	((("6,408,294").PN.) and (advertis\$8 near8engine)	USPAT	OR	OFF	2004/05/07 11:03

## EAST Search History

S12 0	1	((("6,408,294").PN.) and (advertis\$8 same engine)	USPAT	OR	OFF	2004/05/07 11:03
S12 1	1	("6,412,004").PN.	USPAT; USOCR	OR	OFF	2004/05/07 13:10
S12 2	1	("5,768,528").PN.	USPAT; USOCR	OR	OFF	2004/05/07 14:30
S12 3	1	("6085193").PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:10
S12 4	1	("5727178").PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:12
S12 5	2	((("6081665") or ("6542920")).PN.	USPAT; USOCR	OR	OFF	2004/05/07 15:12
S12 6	74	JAR near5 stream	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:20
S12 7	3	JAR near5 stream same plug\$5	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:21
S12 8	38	JAR and java and (stream\$3 same plug\$5)	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:27
S12 9	3	realplayer and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:39
S13 0	4	Quicktime and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:47
S13 1	124	player and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 09:47
S13 2	68	(player same application) and java and JAR	US-PGPUB; USPAT; EPO; JPO	OR	ON	2004/09/30 10:13
S13 3	1	("6427149").PN.	USPAT; USOCR	OR	OFF	2004/09/30 10:13
S13 4	1217	719/328.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
S13 5	7	S134 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:36

## EAST Search History

S13 6	3	S134 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
S13 7	1767	709/231.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:05
S13 8	20	S137 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
S13 9	15	S137 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:35
S14 0	9638	709/203,201-202.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
S14 1	1442	709/200.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
S14 2	25797	709/204,217-227.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
S14 3	12337	709/230,232-247.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:06
S14 4	934	719/310.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
S14 5	3128	719/311-318.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07

## EAST Search History

S14 6	1699	718/100.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
S14 7	3015	718/101-104.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
S14 8	46183	S140 or S141 or S142 or S143 or S144 or S145 or S146 or S147	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
S14 9	381	S148 and (predic\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:07
S15 0	184	S148 and (estimat\$5 near5 model\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08
S15 1	488	S149 or S150	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/14 12:08
S15 2	113	S151 and stream\$5 same (sequenc\$5 or order\$5)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/11/20 13:34


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### 1 [Document creation I: Creating structured PDF files using XML templates](#)



Matthew R. B. Hardy, David F. Brailsford, Peter L. Thomas

 October 2004 **Proceedings of the 2004 ACM symposium on Document engineering**

Publisher: ACM Press

 Full text available: pdf(186.87 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a tool for recombining the logical structure from an XML document with the typeset appearance of the corresponding PDF document. The tool uses the XML representation as a template for the insertion of the logical structure into the existing PDF document thereby creating a Structured/Tagged PDF. The addition of logical structure adds value to the PDF in three ways: the accessibility is improved (PDF screen readers for visually impaired users perform better) media options a ...

**Keywords:** PDF, XML, logical structure insertion

### 2 [Mobile data management: Mimic: raw activity shipping for file synchronization in mobile file systems](#)



Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar

 June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

 Full text available: pdf(334.54 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

**Keywords:** file synchronization, mobile file system, raw activity shipping

### 3 [pC++/streams: a library for I/O on complex distributed data sources](#)



Jacob Gotwals, Suresh Srinivas, Dennis Gannon

 August 1995 **ACM SIGPLAN Notices , Proceedings of the fifth ACM SIGPLAN symposium on Principles and practice of parallel programming PPOPP**

'95, Volume 30 Issue 8

**Publisher:** ACM PressFull text available:  [pdf\(886.06 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


The design and implementation of portable, efficient, and expressive mechanisms for I/O on complex distributed data structures—such as found in adaptive parallel applications—is a challenging problem that we address in this paper. We describe the design, programmer interface, implementation, and performance of pC++/streams, a library that provides an expressive mechanism for I/O on distributed arrays of variable-sized objects in pC++, an object-parallel ...

4 Digital village: Wading into alternate data streams

Hal Berghel, Natasa Brajkovska

April 2004 **Communications of the ACM**, Volume 47 Issue 4**Publisher:** ACM PressFull text available:  [pdf\(204.19 KB\)](#) Additional Information: [full citation](#), [index terms](#)  
 [html\(26.45 KB\)](#)5 Document formatting: Creating reusable well-structured PDF as a sequence of component object graphic (COG) elements


Steven R. Bagley, David F. Brailsford, Matthew R. B. Hardy

November 2003 **Proceedings of the 2003 ACM symposium on Document engineering****Publisher:** ACM PressFull text available:  [pdf\(458.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Portable Document Format (PDF) is a page-oriented, graphically rich format based on PostScript semantics and it is also the format interpreted by the Adobe Acrobat viewers. Although each of the pages in a PDF document is an independent graphic object this property does not necessarily extend to the components (headings, diagrams, paragraphs etc.) within a page. This, in turn, makes the manipulation and extraction of graphic objects on a PDF page into a very difficult and uncertain process. The wo ...

**Keywords:** PDF, form Xobjects, graphic objects, tagged PDF6 Streams, structures, spaces, scenarios, societies (5s): A formal model for digital libraries

Marcos André Gonçalves, Edward A. Fox, Layne T. Watson, Neill A. Kipp

April 2004 **ACM Transactions on Information Systems (TOIS)**, Volume 22 Issue 2**Publisher:** ACM PressFull text available:  [pdf\(316.85 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Digital libraries (DLs) are complex information systems and therefore demand formal foundations lest development efforts diverge and interoperability suffers. In this article, we propose the fundamental abstractions of Streams, Structures, Spaces, Scenarios, and Societies (5S), which allow us to define digital libraries rigorously and usefully. Streams are sequences of arbitrary items used to describe both static and dynamic (e.g., video) content. Structures can be viewed as labeled directed gra ...


**Keywords:** applications., definitions, foundations, taxonomy

Web-conscious storage management for web proxies

Evangelos P. Markatos, Dionisios N. Pnevmatikatos, Michail D. Flouris, Manolis G. H. Katevenis

December 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 6


**Publisher:** IEEE Press

Full text available:  [pdf\(603.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many proxy servers are limited by their file I/O needs. Even when a proxy is configured with sufficient I/O hardware, the file system software often fails to provide the available bandwidth to the proxy processes. Although specialized file systems may offer a significant improvement and overcome these limitations, we believe that user-level disk management on top of industry-standard file systems can offer similar performance advantages. In this paper, we study the overheads associated with file ...

**Keywords:** secondary storage, web caching, web performance, web proxies

8 Efficient data-parallel files via automatic mode detection


 Jason A. Moore, Philip J. Hatcher, Michael J. Quinn

May 1996 **Proceedings of the fourth workshop on I/O in parallel and distributed systems: part of the federated computing research conference**

**Publisher:** ACM Press

Full text available:  [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 A functional shell

 Jon Shultis


June 1983 **Proceedings of the 1983 ACM SIGPLAN symposium on Programming language issues in software systems**

**Publisher:** ACM Press

Full text available:  [pdf\(923.36 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One of the best features of the standard UNIX shell is the use of pipes to compose programs. A C language derivative is used for more complex program combinations involving looping or branching. This paper presents an alternative shell language based on natural extensions of the pipe concept. "Structured data streams" are introduced as a means of expressing potentially concurrent processing, and "labelled data streams" serve to route data to one of a pool ...

10 External memory algorithms and data structures: dealing with massive data

 Jeffrey Scott Vitter

June 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 2

**Publisher:** ACM Press

Full text available:  [pdf\(828.46 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Data sets in large applications are often too massive to fit completely inside the computers internal memory. The resulting input/output communication (or I/O) between fast internal memory and slower external memory (such as disks) can be a major performance bottleneck. In this article we survey the state of the art in the design and analysis of external memory (or EM) algorithms and data structures, where the goal is to exploit locality in order to reduce the I/O costs. We consider a varie ...

**Keywords:** B-tree, I/O, batched, block, disk, dynamic, extendible hashing, external memory, hierarchical memory, multidimensional access methods, multilevel memory, online, out-of-core, secondary storage, sorting

# 11 Technical session 7: multimedia systems: Implementation and evaluation of EXT3NS

## multimedia file system

Baik-Song Ahn, Sung-Hoon Sohn, Chei-Yol Kim, Gyu-Il Cha, Yun-Cheol Baek, Sung-In Jung, Myung-Joon Kim

October 2004 **Proceedings of the 12th annual ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(524.49 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The EXT3NS is a scalable file system designed to handle video streaming workload in large-scale on-demand streaming services. It is based on a special H/W device, called Network-Storage card (NS card), which aims at accelerating streaming operation by shortening the data path from storage device to network interface. The design objective of EXT3NS is to minimize the delay and the delay variance of I/O request in the sequential workload on NS card. Metadata structure, file organization, metadata ...

**Keywords:** file system, multimedia, streaming, video server


# 12 Video Storage: Periodic broadcast and patching services: implementation,

## measurement, and analysis in an internet streaming video testbed

Michael K. Bradshaw, Bing Wang, Lixin Gao, Jim Kurose, Prashant Shenoy, Don Towsley, Subhabrata Sen

October 2001 **Proceedings of the ninth ACM international conference on Multimedia**

**Publisher:** ACM Press

Full text available:  [pdf\(797.96 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Multimedia streaming applications can consume a significant amount of server and network resources. Periodic broadcast and patching are two approaches that use multicast transmission and client buffering in innovative ways to reduce server and network load, while at the same time allowing asynchronous access to multimedia streams by a large number of clients. Current research in this area has focussed primarily on the algorithmic aspects of these approaches, with evaluation performed via analysis ...


**Keywords:** patching, periodic broadcast, server

# 13 iDM: a unified and versatile data model for personal dataspace management

Jens-Peter Dittrich, Marcos Antonio Vaz Salles

September 2006 **Proceedings of the 32nd international conference on Very large data bases VLDB '06**

**Publisher:** VLDB Endowment



Full text available:  [pdf\(957.16 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Personal Information Management Systems require a powerful and versatile data model that is able to represent a highly heterogeneous mix of data such as relational data, XML, file content, folder hierarchies, emails and email attachments, data streams, RSS feeds and dynamically computed documents, e.g. ActiveXML [3]. Interestingly, until now no approach was proposed that is able to represent all of the above data in a single, powerful yet simple data model. This paper fills this gap. We present ...

# 14




## Industrial Session: Scalable streaming of JPEG2000 images using hypertext transfer protocol



-  Sachin Deshpande, Wenjun Zeng  
 October 2001 **Proceedings of the ninth ACM international conference on Multimedia**  
**Publisher:** ACM Press  
 Full text available:  pdf(1.49 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)




This paper describes a scalable architecture for streaming of JPEG2000 images, using Hypertext Transfer Protocol (HTTP). JPEG2000 is a new image compression standard. One of the goals of JPEG2000 is to support large images. For a large image, even the compressed image file size can be very big. Thus downloading the entire image at its full resolution can take a long time depending upon the user's connection speed. Thus we propose to use streaming of JPEG2000 images. We use Hypertext transfer pro ...

**Keywords:** HTTP streaming, JPEG2000, image streaming, quality scalability, region-of-interest scalability, resolution scalability, scalable streaming

- 15 Multimedia: Streaming speech<sup>3</sup>: a framework for generating and streaming 3D text-to-speech and audio presentations to wireless PDAs as specified using extensions to SMIL   
 Stuart Goose, Sreedhar Kodlahalli, William Pechter, Rune Hjelsvold  
 May 2002 **Proceedings of the 11th international conference on World Wide Web**  
**Publisher:** ACM Press  
 Full text available:  pdf(108.21 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


While monochrome unformatted text and richly colored graphical content are both capable of conveying a message, well designed graphical content has the potential for better engaging the human sensory system. It is our contention that the author of an audio presentation should be afforded the benefit of judiciously exploiting the human aural perceptual ability to deliver content in a more compelling, concise and realistic manner. While contemporary streaming media players and voice browsers share ...

**Keywords:** 3D audio, PDA, SMIL, accessibility, location-based, mobile, spatialization, speech synthesis, streaming, wireless

- 16 EXPRESS: a data EXtraction, Processing, and Restructuring System   
 N. C. Shu, B. C. Housel, R. W. Taylor, S. P. Ghosh, V. Y. Lum  
 June 1977 **ACM Transactions on Database Systems (TODS)**, Volume 2 Issue 2  
**Publisher:** ACM Press  
 Full text available:  pdf(2.62 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

EXPRESS is an experimental prototype data translation system which can access a wide variety of data and restructure it for new uses. The system is driven by two very high level nonprocedural languages: DEFINE for data description and CONVERT for data restructuring. Program generation and cooperating process techniques are used to achieve efficient operation. This paper describes the design and implementation of EXPRESS. DEFINE and CONVERT are summarized and the implementation ar ...

**Keywords:** data conversion, data description languages, data manipulation languages, data restructuring, data translation, file conversion, program generation, very high level languages

- 17 News on-demand for multimedia networks 



Gene Miller, Greg Baber, Mark Gilliland

September 1993 **Proceedings of the first ACM international conference on Multimedia****Publisher:** ACM Press

Full text available: pdf(106.03 KB)

ps(1.21 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**Keywords:** authoring, database, digital video, information service, messaging, networked multimedia, news, retrieval, wideband**18** A Structural View of PL/I

David Beech

March 1970 **ACM Computing Surveys (CSUR)**, Volume 2 Issue 1**Publisher:** ACM Press

Full text available: pdf(2.86 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**19** A spatial hierarchical compression method for 3D streaming animation

Toshiki Hijiri, Kazuhiro Nishitani, Tim Cornish, Toshiya Naka, Shigeo Asahara

February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)****Publisher:** ACM Press

Full text available: pdf(209.08 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

When distributing 3D contents real-time over a network with a narrow bandwidth such as a telephone line, methods for streaming and data compression can be considered indispensable. In previous work, we made possible the real-time streaming of 3D animation data on a network with a narrow bandwidth such as a telephone line by partitioning motion data for humanoid characters (data obtained by motion capture, for example full frame data at 30 frames/sec) into packets and then carrying ...

**Keywords:** VRML, animation, compression, hierarchy, humanoid character, streaming**20** The logical disk: a new approach to improving file systems

Wiebren de Jonge, M. Frans Kaashoek, Wilson C. Hsieh

December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the fourteenth ACM symposium on Operating systems principles SOSP '93**, Volume 27 Issue 5**Publisher:** ACM Press

Full text available: pdf(1.55 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Logical Disk (LD) defines a new interface to disk storage that separates file management and disk management by using logical block numbers and block lists. The LD interface is designed to support multiple file systems and to allow multiple implementations, both of which are important given the increasing use of kernels that support multiple operating system personalities. A log-structured implementation of LD (LLD) demonstrates that LD can be implemented efficiently. LLD adds about 5% to 10% ...





**Keywords:** MINIX, UNIX, disk storage management, file system organization, file system performance, high write performance, log-structured file system, logical disk

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IEEE JNL IEE Journal or Magazine

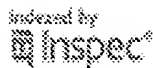
IEEE CNF IEEE Conference Proceeding

IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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IEEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

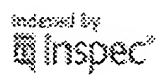
IEEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

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Niranjan, T.N.; Tzi-cker Chiueh; Schloss, G.A.;  
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3-6 June 1997 Page(s):269 - 276  
Digital Object Identifier 10.1109/MMCS.1997.609602  
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22-25 Jan. 1995 Page(s):348 - 357  
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Hinterberger, H.; Bauer-Messmer, B.;  
[Scientific and Statistical Database Management, 1998. Proceedings. Tenth Int](#)  
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Levy, J.A.; Wang, W.;  
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[Symposium on](#)  
31 Oct.-3 Nov. 1988 Page(s):72 - 76  
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